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ELECTRIFICATION PROGRAM PROGRESSING

The Dnepr GES imeni V. I. Lenin completed the 8-month plan for production of electric power on 15 August.

On 26 August, the Dnepr Hydroelectric Power Plant imeni V. I. Lenin put into operation its sixth reconstructed unit. The turbine was built by the Leningrad Metal Plant imeni Stalin, and the generator by the "Elektrosila" Plant imeni S. M. Kirov.

The electrification of the Ukraine is rapidly being carried out. There are now 3,175 rural electric power plants in operation in the republic. More than 3,500 kolkhozes, hundreds of sovkhoses, and about 1,000 MTS and repair stations are now provided with electricity. Electricity is widely used in threshing, cleaning grain, milking cows, shearing sheep, etc. The use of electricity for the cultural and household needs of kolkhoz workers is increasing every day.

Capital repair of equipment in enterprises of "Azenergo" (Azerbaijdzhan Electric Power) is now done by high-speed methods. The fundamentals of these methods are thorough preliminary preparation of the working area, correct organization of labor, and maximum mechanization of labor-consuming work.

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In July a boiler installation of the GRES plant was repaired in 10 days instead of the usual 14. A second boiler was repaired in 10 days instead of the usual 18. The GRES repaired a turbine generator in 8 days instead of the usual 11.

In the "Krasnaya zvezda" GRES a boiler was repaired in 7 days instead of the usual 13. Wide use of such machinery as monorails, electric winches, and tractors permitted the GRES to cut the time necessary to change a steam superheater from 20 days to 17. Formerly, this work took up to 40 days. Between-repair service of the GRES boilers has been lengthened to 100-110 days, against a former figure of 60-70 days.

BELORUSSIAN POWER PLANTS ATTAIN PREWAR OUTPUT -- Pravda, No 242, 30 Aug 49

The number and capacity of Belorussian electric power plants serving the community have attained the prewar level. During 1949, new power plants will be put into operation in Molodetschno and Klimovich. The capacity of plants in Slutsk and Rechitsa will be increased, and the power plant at Grodno will be expanded.

SECOND UNIT SPEEDILY INSTALLED -- Vechernyaya Moskva, No 206, 30 Aug 49

The second unit of the Frunzenskiy TETs, Frunzenskiy Rayon, Moscow, has been built at high-speed tempo. Work started in the summer of 1948. It was necessary to build a complicated foundation. In the original plan it was to have rested on about 1,000 piles driven into the ground, but it turned out to be possible to eliminate expensive underground work and to achieve a great saving. The framework of the building, 40 meters high, was put up with the aid of a gantry crane. Masons laid 2 million bricks, and the interior is now being finished.

The turbine for the unit is to achieve a speed of 3,000 rpm. At present the turbine is working without load, but in a few days the assemblers will add the generator and the turbine will take on its first load. When this new machinery starts operations, the Frunzenskiy TETs will double its capacity.

The TETs has a high-pressure boiler lined with half a million bricks. Ball mills have been installed nearby. These machines pulverize coal for fuel purposes. Tests are being made on these mills and also on other auxiliary mechanisms of the boiler: exhaust fans, powerful blowers.

The new heat network extends beneath Smolenskiy Boulevard to the Krynskiy Bridge. At the junction with Zubovskaya Street it comes to the surface and extends in the direction of Bol'shaya Pirogovskaya. The main line extends along the Savvinskaya embankment. There is a tunnel 2½ meters in diameter underneath the Moskva River extending from the Savvinskaya embankment to the Berezhkovskaya embankment which contains the heat network.

HYDRAULIC ENGINEERING MACHINERY EXTENSIVELY USED -- Bakinskiy Rabochiy, No 167, 26 Aug 49

Hydraulic machinery, supplied by the Mingecheaur Office of the "Gidromekhanizatsiya" Trust, is being used extensively in excavating the foundations for the main structures of the Mingecheaur project. Since the beginning of 1949, 800,000 cubic meters of earth work has been completed, while the year plan called for 500,000 cubic meters. The foundation for the right-bank part of the dam, started one year ago, is near completion. An excavation of nearly

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one million cubic meters has been made on the slopes of the Boz-day. High-pressure monitors have washed mounds of earth as high as 35 meters into the Kura River. Large masses of rock have been washed into the Kura and rise 50-60 meters above the river.

Two months from now, the right-bank excavation will be ready for the construction of an earth dam. It has been planned to make extensive use of hydraulic machinery on the construction of the left-bank part of the dam for the Mingechaur CES. The hydraulic machinery will now be concentrated on extracting 400,000 cubic meters of gravel and sand necessary for the concrete work on the dam and the building of the ground pipes for the dam during 1949.

BOILERS CONVERTED TO SHALE DUST FIRING -- Leningradskaya Pravda, No 202, 27 Aug 49

The Slantsy Electric Power Plant has remodeled one of its furnaces, adapting it for burning shale powder (shale dust). The experiment was successful. The steam capacity of the boiler increased one and a half times, the operation became more regular, and frequent repairs due to change of grate bars were eliminated. This innovation will save the power plant 576,000 rubles a year. At present, the furnace of the second boiler is being converted to the burning of shale dust.

TBILISI ELECTRICAL NETWORK EXPANDS -- Zarya Vostoka, No 159, 14 Aug 49

The Tbilisi Administration of Electrical Installations is expanding the city electrical network. During the current year, 27 kilometers of underground high-voltage cables will be laid, 20 kilometers of overhead cables will be suspended, and 36 transformer booths will be built. About half of the work has been done.

TBILISI INSTITUTE TRAINS POWER ENGINEERS -- Zarya Vostoka, No 159, 14 Aug 49

The Tbilisi Scientific Research Institute of Installations and Hydro-electric Power Engineering (TNISGEI), Ministry of Electric Power Plants USSR, announces the admission of graduate students for the 1949-1950 school year. Enrollment begins on 1 September 1949, in hydraulic engineering and hydro-electric power engineering. Applications may be filed until 1 September 1949 at the following address: Tbilisi, TNISGEI, ulitsa Marra, 54. -- Advertisement

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